

25-90  
1202

#2



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## RAW SEQUENCE LISTING

DATE: 12/13/2002

PATENT APPLICATION: US/09/921,406C

TIME: 15:10:46

Input Set : A:\Agilen11.app

Output Set: N:\CRF4\12132002\I921406C.raw

3 <110> APPLICANT: Yakhini, Zohar  
 4 Ben-Dor, Amir  
 5 Sampas, Nick  
 6 Dougherty, Edward  
 7 Trent, Jeff  
 8 Meltzer, Paul  
 9 Chen, Yidong  
 10 Weeraratna, Ashani  
 11 Jiang, Yuan  
 12 Bittner, Michael  
 14 <120> TITLE OF INVENTION: Classifying Cancers  
 16 <130> FILE REFERENCE: 10010313-1  
 18 <140> CURRENT APPLICATION NUMBER: 09/921,406C  
 19 <141> CURRENT FILING DATE: 2001-08-02  
 21 <160> NUMBER OF SEQ ID NOS: 41  
 23 <170> SOFTWARE: PatentIn Ver. 2.1  
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 42 <222> LOCATION: (245) /  
 43 <223> OTHER INFORMATION: n = gat or c  
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 47 <222> LOCATION: (268) /  
 48 <223> OTHER INFORMATION: n = gat or c  
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 52 <222> LOCATION: (306)  
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 57 <222> LOCATION: (388) /

P.6

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## RAW SEQUENCE LISTING

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TIME: 15:10:46

Input Set : A:\Agilen11.app

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84 agtggataat ctaaacacag gatcataaca gtgatacgct gcaacacctc tgtgaattcc 240
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111 tgcagcactg tggataacac ctctgttttt ggcaggggtga tgcagatagg cagccgcgag 840
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## RAW SEQUENCE LISTING

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TIME: 15:10:46

Input Set : A:\Agilen11.app

Output Set: N:\CRF4\12132002\I921406C.raw

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117 gatgtggcct gcaagtgccca tggggtgtcc ggctcatgta gcctgaagac atgctggctg 1200
118 cagctggcag acttccgcaa ggtgggtgat gccctgaagg agaagtacga cagcgcggcg 1260
119 gccatgccgc tcaacagccg gggcaagttg gtacagggtca acagccgctt caactcgccc 1320
120 accacacaag acctggtcta catcgacccc agccctgact actgctgctg caatgagagc 1380
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123 tgccactgca agttccactg gtgctgctac gtcaagtgca agaagtgcac ggagatcgtg 1560
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125 cttattttata gaaagtacag tgattctggt ttttggtttt tagaaatatt ttttattttt 1680
126 cccaagaat tgcaaccgga accatttttt ttcctgttac catctaagaa ctctgtggtt 1740
127 tattattaat attataatta ttatttgga ataatggggg tgggaaccac gaaaaatatt 1800
128 tttttgtgg atctttgaaa aggtaatata agacttcttt tggatagtat agaatgaagg 1860
129 gggaaataac acatacccta acttagctgt gtgggacatg gtacacatcc agaaggtaaa 1920
130 gaaatacatt ttctttttct caaatatgcc atcatatggg atgggtagg tccagttgaa 1980
131 agagggtggt agaaatctat tcacaattca gcttctatga ccaaaatgag ttgtaaattc 2040
132 tctggtgcaa gataaaaggt cttgggaaaa caaaacaaa caaaacaaac ctcccttccc 2100
133 cagcagggtc gctagcttgc tttctgcatt ttcaaatga taatttaca tggaaggaca 2160
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Input Set : A:\Agilen11.app

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172 <213> ORGANISM: Homo sapiens
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179 20 25 30
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182 35 40 45
184 Gly Ala Gln Pro Leu Cys Ser Gln Leu Ala Gly Leu Ser Gln Gly Gln
185 50 55 60
187 Lys Lys Leu Cys His Leu Tyr Gln Asp His Met Gln Tyr Ile Gly Glu
188 65 70 75 80
190 Gly Ala Lys Thr Gly Ile Lys Glu Cys Gln Tyr Gln Phe Arg His Arg
191 85 90 95
193 Arg Trp Asn Cys Ser Thr Val Asp Asn Thr Ser Val Phe Gly Arg Val
194 100 105 110
196 Met Gln Ile Gly Ser Arg Glu Thr Ala Phe Thr Tyr Ala Val Ser Ala
197 115 120 125
199 Ala Gly Val Val Asn Ala Met Ser Arg Ala Cys Arg Glu Gly Glu Leu
200 130 135 140
202 Ser Thr Cys Gly Cys Ser Arg Ala Ala Arg Pro Lys Asp Leu Pro Arg
203 145 150 155 160
205 Asp Trp Leu Trp Gly Gly Cys Gly Asp Asn Ile Asp Tyr Gly Tyr Arg
206 165 170 175
208 Phe Ala Lys Glu Phe Val Asp Ala Arg Glu Arg Glu Arg Ile His Ala
209 180 185 190
211 Lys Gly Ser Tyr Glu Ser Ala Arg Ile Leu Met Asn Leu His Asn Asn
212 195 200 205
214 Glu Ala Gly Arg Arg Thr Val Tyr Asn Leu Ala Asp Val Ala Cys Lys
215 210 215 220
217 Cys His Gly Val Ser Gly Ser Cys Ser Leu Lys Thr Cys Trp Leu Gln
218 225 230 235 240
220 Leu Ala Asp Phe Arg Lys Val Gly Asp Ala Leu Lys Glu Lys Tyr Asp
221 245 250 255
223 Ser Ala Ala Ala Met Arg Leu Asn Ser Arg Gly Lys Leu Val Gln Val
224 260 265 270
226 Asn Ser Arg Phe Asn Ser Pro Thr Thr Gln Asp Leu Val Tyr Ile Asp
227 275 280 285
229 Pro Ser Pro Asp Tyr Cys Val Arg Asn Glu Ser Thr Gly Ser Leu Gly
230 290 295 300
232 Thr Gln Gly Arg Leu Cys Asn Lys Thr Ser Glu Gly Met Asp Gly Cys
233 305 310 315 320
235 Glu Leu Met Cys Cys Gly Arg Gly Tyr Asp Gln Phe Lys Thr Val Gln

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DATE: 12/13/2002

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TIME: 15:10:46

Input Set : A:\Agilen11.app

Output Set: N:\CRF4\12132002\I921406C.raw

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258 atggcttgca tttttcctac accattccaa aggagaacat tagatgtctg tattaaattc 180
W--> 259 aagcaaaagt gtgagagaaa taatttcagc atgtctcagg tgtctcgctg gcncttaagg 240
260 tgaataaggt ggtggtgact gttctgcaga gagtttctca taagcagggtg gagcattggg 300
261 aaccacaggt tcacagtttt tctcttgaag agacactttg ctgtcccgat gatcaaacc 360
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273 cggctgaaga ggccgctggg atcggcatcc tgacagtgat cctgggagtc ttactgctca 180
274 tcggctgttg gtattgtaga agacgaaatg gatacagagc cttgatggat aaaagtcttc 240
275 atgttggcac tcaatgtgcc ttaacaagaa gatgccaca agaagggttt gatcatcggg 300
276 acagcaaagt gtctcttcaa gagaaaaact gtgaacctgt ggttcccaat gctccacctg 360
277 ctatagagaa actctctgca gaacagtcac caccacctta ttcaccttaa gagccagcga 420
278 gacacctgag acatgctgaa attatttctc tcacactttt gcttgaattt aatacagaca 480
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284 accttgaccg acatgaactg tacacagaat tgttccagta ctatggagtg ctcacaaagg 840
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286 agcaatgtct ctttgtgctc taaaattcta ttatactaca ataatatatt gtaaagatcc 960
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291 ctgcccgcct cagcctccca aagtgtgga attacaggcg tgagccacca cgctggctg 1260
292 gatcctatat cttaggtaag acatataacg cagtctaatt acatttctact tcaaggctca 1320
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**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: US/09/921,406C

DATE: 12/13/2002  
TIME: 15:10:47

Input Set : A:\Agilen11.app  
Output Set: N:\CRF4\12132002\I921406C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:6; N Pos. 47,92,95,386,408,427  
Seq#:8; N Pos. 178,180,360,396,417,433,441,456,465,480,488,493,499,508,528  
Seq#:10; N Pos. 11,239,328,359  
Seq#:12; N Pos. 65,117,131,192,207,254,266,303  
Seq#:14; N Pos. 214,268  
Seq#:16; N Pos. 26,90,324,337,348,368  
Seq#:18; N Pos. 49,186,189,195,199  
Seq#:19; N Pos. 2019,4013,4016  
Seq#:20; N Pos. 475,478  
Seq#:22; N Pos. 4,6,7,8,162,268,345,388  
Seq#:24; N Pos. 498,504,507  
Seq#:26; N Pos. 183,211,279,307,310,345,350,361,380,388  
Seq#:28; N Pos. 14,15,122,216  
Seq#:30; N Pos. 320,321,433,469,485  
Seq#:32; N Pos. 136,353,383,411  
Seq#:36; N Pos. 407,430  
Seq#:38; N Pos. 311,389,454,470  
Seq#:40; N Pos. 146,148,347,411,413,421

## VERIFICATION SUMMARY

DATE: 12/13/2002

PATENT APPLICATION: US/09/921,406C

TIME: 15:10:47

Input Set : A:\Agilen11.app

Output Set: N:\CRF4\12132002\I921406C.raw

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L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:240  
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:300  
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:360  
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:420  
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:480  
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:180  
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60  
L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:360  
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:420  
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:120  
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:300  
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L:1006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:3960  
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:420  
L:1170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
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L:1255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:480  
L:1333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:180  
L:1334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:240  
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:300  
L:1336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:360  
L:1452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:1454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:120

**VERIFICATION SUMMARY**

DATE: 12/13/2002

PATENT APPLICATION: US/09/921,406C

TIME: 15:10:47

Input Set : A:\Agilen11.app

Output Set: N:\CRF4\12132002\I921406C.raw

L:1455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:180  
L:1568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:300